

radar survey of reynolds mountain east

03/19/09

2-10 GHz FMCW system, ran both small GPS (synced) and Magellan.

Radar file	Magellan File
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p1	t1, t1e = start, end of big sage transect t2, t2e = start, end of drift
pzigzag	zz = zig zag across big drift last out and back was above tail and below tail of drift
pt3	t3,t3e = Fir-Mel transect - note we only did first ~1/2 by mistake t4,t4e = Aspen t5,t5e = willow - hard to follow line, manual depths will not align perfectly. Use histograms of results rather than spatial data. t6, t6e = fir on reynolds mountain west

RME BASE = static point ~3m from middle stake on drift for ~1hr

Magellan GPS was always on LHS of radar (~1m from center)

Small GPS fixed to radar box.

In tight vegetation, GPS often ~1m in front of radar rather than to LHS, due to dense trees/willows.

Mean radar velocity calculated from ground snow density measurements, assuming dry snow, is 2.225e8 m/s.